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### [21 A versatile large-scale multimodal VR system for cultural heritage visualization](#)

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Chris Christou, Cameron Angus, Celine Loscos, Andrea Dettori, Maria Roussou

November 2006 VRST '06: Proceedings of the ACM symposium on Virtual reality software and technology

Publisher: ACM

 Full text available: pdf(2.16 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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We describe the development and evaluation of a large-scale multimodal virtual reality simulation suitable for the visualization of cultural heritage sites and architectural planning. The system is demonstrated with a reconstruction of an ancient Greek ...

**Keywords:** haptics, multimodal Interfaces, virtual heritage

 PLC Programming Process, electrical, controls, PLC and data acquisition.  
[www.basistech.com](http://www.basistech.com)

### [22 Cycle-accurate power analysis for multiprocessor systems-on-a-chip](#)

 DC Computer Programming Call for Programming Services and Manage Your Data More Efficiently!  
[www.computer.org](http://www.computer.org)

Mirko Loghi, Massimo Poncino, Luca Benini

April 2004 GLSVLSI '04: Proceedings of the 14th ACM Great Lakes symposium on VLSI

Publisher: ACM

 Full text available: pdf(191.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Developing energy-aware software for multiprocessor systems-on-chip (MPSoCs) is a difficult task, which requires the knowledge of the distribution of the power consumption among several heterogeneous devices (cores, memories, busses, etc.). In this work ...

**Keywords:** low power, multiprocessor, system-on-chip

 NI Graphical Programming Powerful, Intuitive Programming w/ LabVIEW- Online Tutorials & Eval's.  
[www.ni.com](http://www.ni.com)

### [23 Automated material handling systems: a simulation-based design framework for automated material handling systems in 300mm fabrication facilities](#)

Dima Nazzal, Douglas A. Bodner

December 2003 WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

 Full text available: pdf(362.35 KB) Additional Information: [full citation](#), [abstract](#),

## references

This paper describes a methodology to tackle the problem of designing Automated Material Handling Systems (AMHS) for 300mm wafer fabrication facilities. The proposed framework divides the design process into two levels: architectural and elaborate. ...

- 24 Applying temporal databases to HLA data collection and analysis

Thom McLean, Leo Mark, Margaret Loper, David Rosenbaum

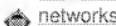
December 1998 WSC '98: Proceedings of the 30th conference on Winter simulation

Publisher: IEEE Computer Society Press

Full text available:  pdf(65.27 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

- 25 Network scheduling for data archiving applications in sensor networks



Yong Yao, S. M. Nazrul Alam, Johannes Gehrke, Sergio D. Servetto

September 2006 DMSN '06: Proceedings of the 3rd workshop on Data management for sensor networks: in conjunction with VLDB 2006

Publisher: ACM

Full text available:  pdf(325.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Since data archiving in sensor networks is a communication intensive application, a careful power management of communication is of critical importance ...

- 26 A new simulation model for expressway weaving sections evaluation

Sun Jian, Yang Xiaoguang, Ma Yunlong

December 2005 WSC '05: Proceedings of the 37th conference on Winter simulation

Publisher: Winter Simulation Conference

Full text available:  pdf(294.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Simulation of traffic flow is an effective tool for traffic system management, control and optimization, particularly in congested urban areas. TESS is an object oriented traffic simulation model with detailed representation of vehicles and their interactions. ...

- 27 You are going to teach simulation: now what? tips and strategies

Michael Freimer, Lee W. Schruben, Theresa M. Roeder, Charles R.

Standridge, Catherine M. Harmonosky, Ingolf Stähli

December 2004 WSC '04: Proceedings of the 36th conference on Winter simulation

Publisher: Winter Simulation Conference

Full text available:  pdf(393.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Facing the prospect of teaching a simulation course for the first time can be a bit overwhelming. This panel shares tips and strategies for teaching simulation based upon a wide variety of experiences, from academic

newcomer to many years in the field, ...

- 28 Distributed simulation in manufacturing: simulation of distributed manufacturing enterprises: a new approach

Sameh M. Saad, Terrence Perera, Ruwan Wickramarachchi  
December 2003 WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available:  pdf(356.99 KB)

Additional Information: full citation, abstract, references

The globalization of markets and world-wide competition forces manufacturing enterprises to enter into alliances leading to the creation of distributed manufacturing enterprises. Before forming a partnership it is essential to evaluate viability of proposed ...

- 29 Distributed simulation in industry -- a survey: part 2 -- experts on distributed simulation

Csaba Attila Boer, Arie de Bruin, Alexander Verbraeck  
December 2006 WSC '06: Proceedings of the 38th conference on Winter simulation

Publisher: Winter Simulation Conference

Full text available:  pdf(210.67 KB)

Additional Information: full citation, abstract, references, cited by

Distributed simulation is used very little in industry, especially when compared with the interest in distributed simulation from research and from the military domain. In order to answer the question why industry lags behind, the authors have carried ...

- 30 Sparse data aggregation in sensor networks

Jie Gao, Leonidas Guibas, Nikola Milosavljevic, John Hershberger  
April 2007 IPSN '07: Proceedings of the 6th international conference on Information processing in sensor networks

Publisher: ACM

Full text available:  pdf(363.19 KB)

Additional Information: full citation, abstract, references, index terms

We study the problem of aggregating data from a *sparse* set of nodes in a wireless sensor network. This is a common situation when a sensor network is deployed to detect relatively rare events. In such situations, each node that should participate ...

Keywords: aggregation, sensor networks

- 31 Heterogeneous multi-computer system: a new platform for multi-paradigm scientific simulation

Taisuke Boku, Masayuki Umemura, Jun'ichiro Makino, Toshiyuki Fukushige, Hajime Susa, Akira Ukawa  
June 2002 ICS '02: Proceedings of the 16th international conference on Supercomputing

Publisher: ACM

Full text available:  pdf(167.22 KB)

Additional Information: full citation, abstract, references, index terms

HMCS (Heterogeneous Multi-Computer System) is a new parallel processing platform combining massively parallel processors for continuum simulation and particle simulation to realize multi-scale computational physics simulations. We are constructing a ...

**Keywords:** CP-PACS, GRAPE, heterogeneous computing

- 32 Undergraduate embedded system education at Carnegie Mellon

Philip Koopman, Howie Choset, Rajeev Gandhi, Bruce Krogh, Diana Marinescu, Priya Narasimhan, Joann M. Paul, Ragunathan Rajkumar, Daniel Siewiorek, Asim Smailagic, Peter Steenkiste, Donald E. Thomas, Chenxi Wang

August 2005 ACM Transactions on Embedded Computing Systems (TECS), Volume 4 Issue 3

Publisher: ACM

Additional Information: full citation, abstract,

Full text available:  pdf(162.46 KB)

references, cited by, index terms, review

Embedded systems encompass a wide range of applications, technologies, and disciplines, necessitating a broad approach to education. We describe embedded system coursework during the first 4 years of university education (the U.S. undergraduate level). ...

**Keywords:** Embedded systems education, curriculum

- 33 A performance evaluation of a novel energy-aware data-centric routing algorithm in wireless sensor networks

Azzedine Boukerche, Xuzhen Cheng, Joseph Linus  
September 2005 Wireless Networks, Volume 11 Issue 5  
Publisher: Kluwer Academic Publishers

Full text available:  pdf(956.90 KB)

Additional Information: full citation, abstract, references, index terms

In this paper, we present a novel Energy-Aware Data-Centric Routing algorithm for wireless sensor networks, which we refer to as EAD. We discuss the algorithm and its implementation, and report on the performance results of several workloads using the ...

**Keywords:** data-centric routing, in-network processing, spanning tree with maximum leaves, wireless sensor network

- 34 Using the SimOS machine simulator to study complex computer systems

Mendel Rosenblum, Edouard Bugnion, Scott Devine, Stephen A. Herrod  
January 1997 ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 7 Issue 1

Publisher: ACM

Full text available:  pdf(731.76 KB)

Additional Information: full citation, references, cited by, index terms, review

**Keywords:** computer architecture, computer simulation, computer system performance analysis, operating systems

- 35 Improving the Scalability of Parallel Jobs by adding Parallel Awareness to the Operating System

Terry Jones, Shawn Dawson, Rob Neely, William Tuel, Larry Brenner,

Jeffrey Fier, Robert Blackmore, Patrick Caffrey, Brian Maskell, Paul Tomlinson, Mark Roberts  
 November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on Supercomputing  
 Publisher: IEEE Computer Society  
 Full text available:  pdf{227.39 KB} Additional Information: full citation, abstract, cited by

A parallel application benefits from scheduling policies that include a global perspective of the application's process working set. As the interactions among cooperating processes increase, mechanisms to ameliorate waiting within one or more of the ...

**36 Database driven factory simulation: a proof-of-concept demonstrator**

Lars G. Randell, Gunnar S. Bolmsjö  
 December 2001 WSC '01: Proceedings of the 33rd conference on Winter simulation  
 Publisher: IEEE Computer Society

Full text available:  pdf{114.43 KB} Additional Information: full citation, abstract, references, cited by, index terms

The paper presents a database-based method to reduce the development time and project lead-time for large discrete-event simulation models of entire factories. The database used to automatically generate and drive the simulation model is a copy of the ...

**37 Study on simulation credibility metrics**

Fei Liu, Ming Yang, Zicai Wang  
 December 2005 WSC '05: Proceedings of the 37th conference on Winter simulation  
 Publisher: Winter Simulation Conference

Full text available:  pdf{276.97 KB} Additional Information: full citation, abstract, references

Currently, there appears to be an over-preoccupation with building simulation validity in simulation credibility evaluation. However, today's simulation systems become more complex and larger, the only validity metric can't represent simulation credibility, ...

**38 Practical synchronization techniques for multi-channel MAC**

Hoi-Sheung Wilson So, Giang Nguyen, Jean Walrand  
 September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  pdf{291.65 KB} Additional Information: full citation, abstract, references, index terms

Researchers have proposed many wireless MAC protocols such as [20], [8], [25], [24], [6], and [17] which exploit frequency-agile radios and multiple available channels to increase network through-put. These protocols usually only require each node to ...

Keywords: clock drift, medium access control, multi-channel MAC, protocol, recursive least squares (RLS), time synchronization, wireless

**39 System lag tests for augmented and virtual environments**

 Colin Swindells, John C. Dill, Kellogg S. Booth

November 2000 UI ST '00: Proceedings of the 13th annual ACM symposium  
on User interface software and technology

Publisher: ACM

Full text available:  pdf(1.51 MB)

Additional Information: [full citation](#), [references](#), [cited by](#),  
[index terms](#)

**Keyw ords:** augmented reality, calibration, lag, sensor, turntable, virual  
reality

40 [System-level power optimization: techniques and tools](#)

 Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic  
Systems (TODAES), Volume 5 Issue 2

Publisher: ACM

Full text available:  pdf(385.22 KB)

Additional Information: [full citation](#), [abstract](#),  
[references](#), [cited by](#), [index  
terms](#)

This tutorial surveys design methods for energy-efficient system-level  
design. We consider electronic systems consisting of a hardware platform  
and software layers. We consider the three major constituents of  
hardware that consume energy, namely computation, ...

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